TOP SECRET

IMAGERY
ANALYSIS
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

[redacted]

CHINESE POWER PLANTS

KIANGSI PROVINCE

Declass Review by NIMA/DOD

[redacted] 25X

CIA/PIR 65143

[redacted] 25X

DATE JUNE 1966

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PAGES 19

GROUP 1
Excluded from automatic downgrading and declassification

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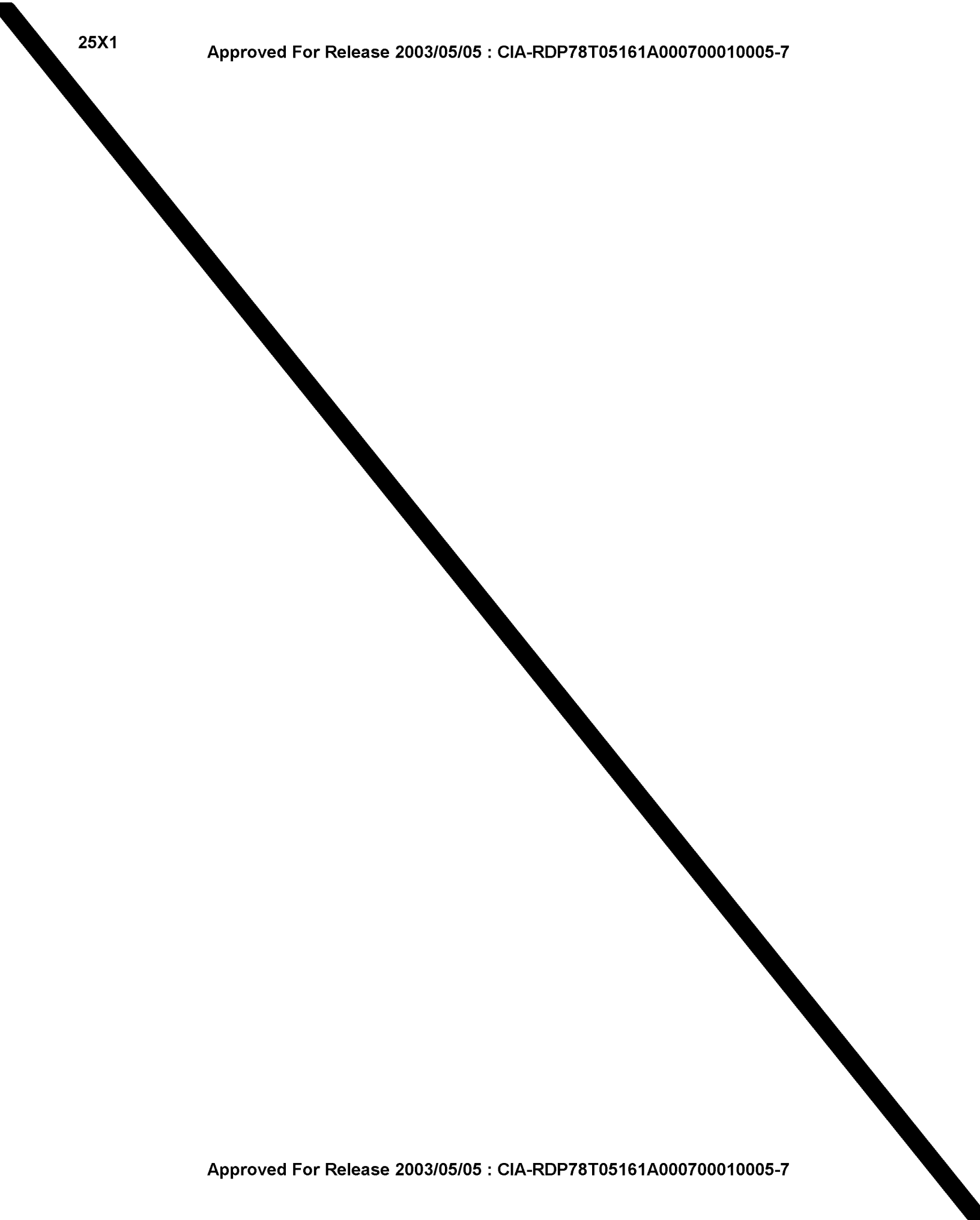

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65143 June 1966 25137

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CIA IMAGERY ANALYSIS DIVISION

PIR - 65143

CHINESE POWER PLANTS

KIANGSI PROVINCE

(A) Probable Che-lin Hydro Power Plant

(B) Chih-tu Hydro Power Plant (Lo-pien-tsun)

(C) Hsin-yu Hydro Power Plant (Chiang-kou)

(D) Nan-chang Thermal Power Plant (Chi-li-chieh)

(E) Shang-yu Hydro Power Plant (Tieh-shan-kuan)

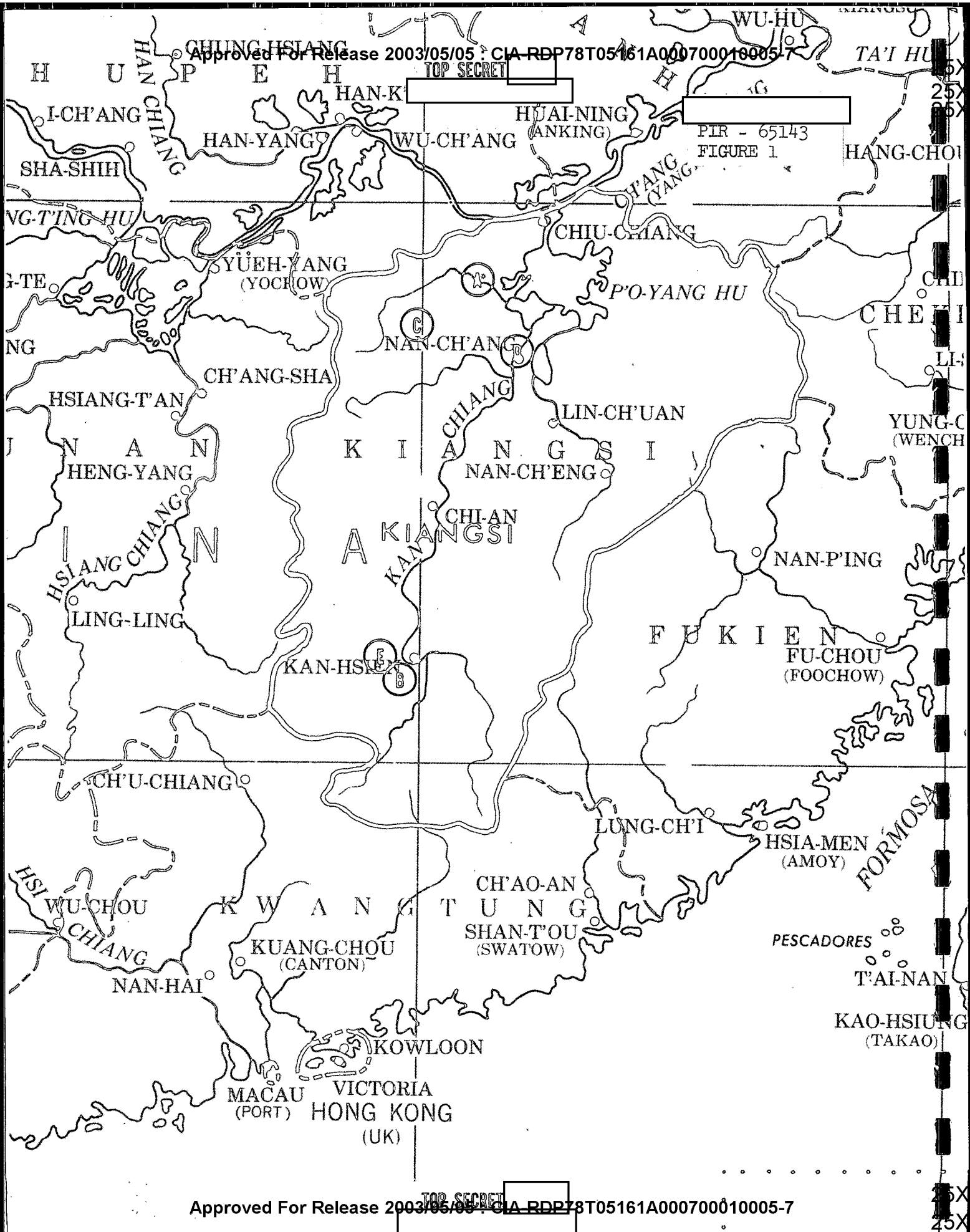
REQUIREMENT

C-RR5-83,218

CIA/IAD PROJECT

30647-6

FIGURE 1



TABS

A

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PROBABLE CHE-LIN HYDRO POWER PLANT

The probable site of the Che-lin Hydro Power Plant is located 15.3 nm northwest of Yung-hsiu on the Hsiu Shui (River) at coordinates 29 12 10N - 115 29 20E. Considerable scarring marks the site, but no actual construction appears to have occurred. The northern river channel has been filled to provide access to what was once an island. This fill may eventually serve as the base for the dam.

No current activity is apparent and the site has not changed since first observed

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FIGURE 2

CHE-LIN HYDRO POWER PLANT

[redacted]

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[redacted]

25X1

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[redacted]

25X1

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PROBABLE CHE-LIN HYDRO POWER PLANT

The probable site of the Che-lin Hydro Power Plant is located 15.3 nm northwest of Yung-hsiu on the Hsiu Shui (River) at coordinates 29 12 10N - 115 29 20E. Considerable scarring marks the site, but no actual construction appears to have occurred. The northern river channel has been filled to provide access to what was once an island. This fill may eventually serve as the base for the dam.

No current activity is apparent and the site has not changed since first observed in [redacted]

[redacted]

25X1

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B

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CHIH-TU HYDRO POWER PLANT (LO-PIEN-TSUN)

25X1 [redacted]

NPIC NUMBER - 111

25X1 The Chih-tu Hydro Power Plant (Lo-pien-tsun) is located 3.4 nm west of Hsin-cheng Airfield [redacted] at coordinates 25 33 30N - 114 32 45E. The facility is still under construction and presently consists of an earthen dam and two excavations probably intended for penstocks and a spillway. There is no indication that construction of a generator hall has begun.

25X1 There has been no change in facilities [redacted] when first observed, [redacted]

25X1

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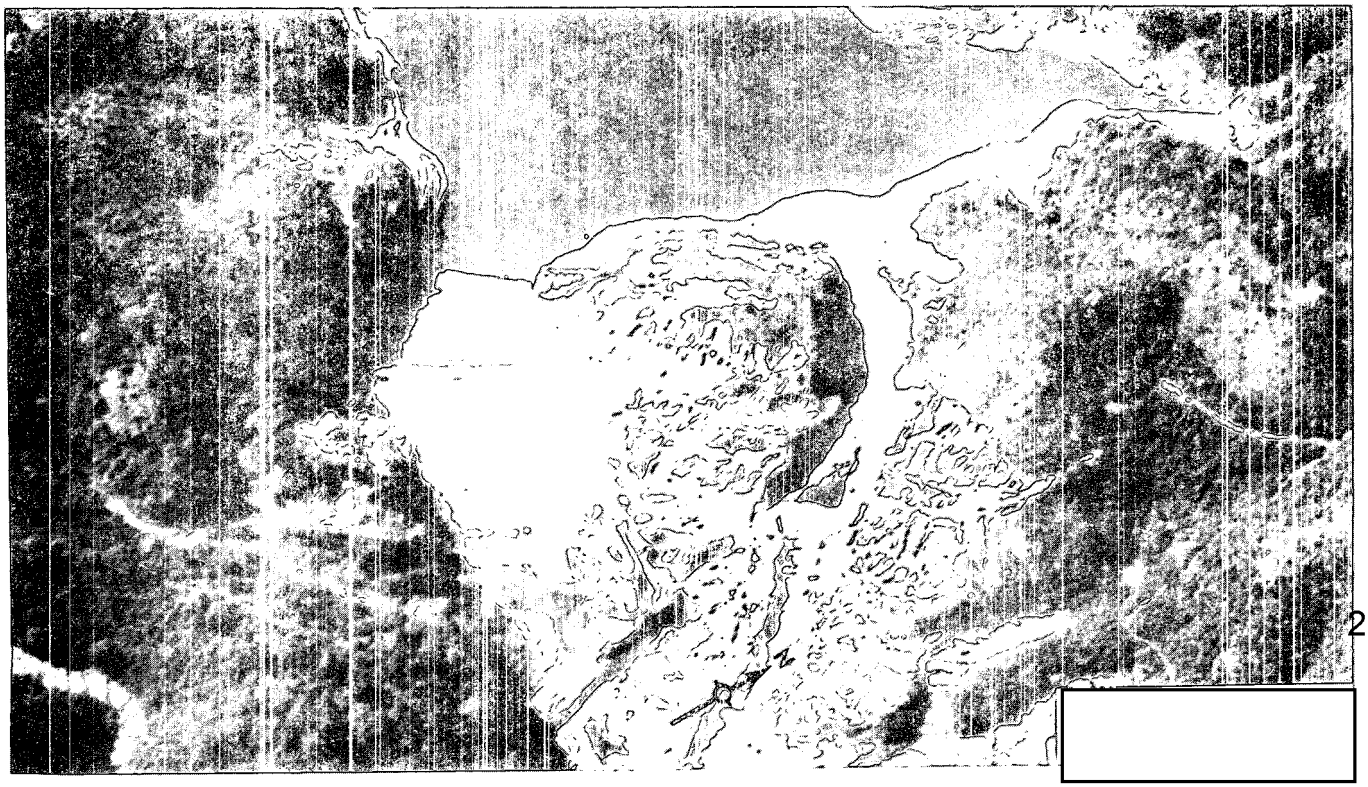
FIGURE 3

CHIH-TU HYDRO POWER PLANT(LO-PIEN-TSUN)



25X1

25X1

C

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HSIN-YU HYDRO POWER PLANT (CHIANG-KOU)

25X1

NPIC NUMBER - 107

The Hsin-yu Hydro Power Plant is located 6.7 nm west of Hsin-yu on the Yuan Shui at coordinates 28 43 40N - 114 49 40E. This facility is of the consolidated type, consists of an earth-fill dam, an integrated concrete spillway, a sub-station with two possible transformers and a generator hall. There appears to be four water intakes serving the generator hall. The number of tailwater outlets could not be determined on available photography, but the completed generator hall appears large enough for at least four turbo-generator units.

The generator hall was under construction when first observed in and appeared complete Only one instance of turbulence was observed on the missions covering the plant from

25X1
25X1
25X1

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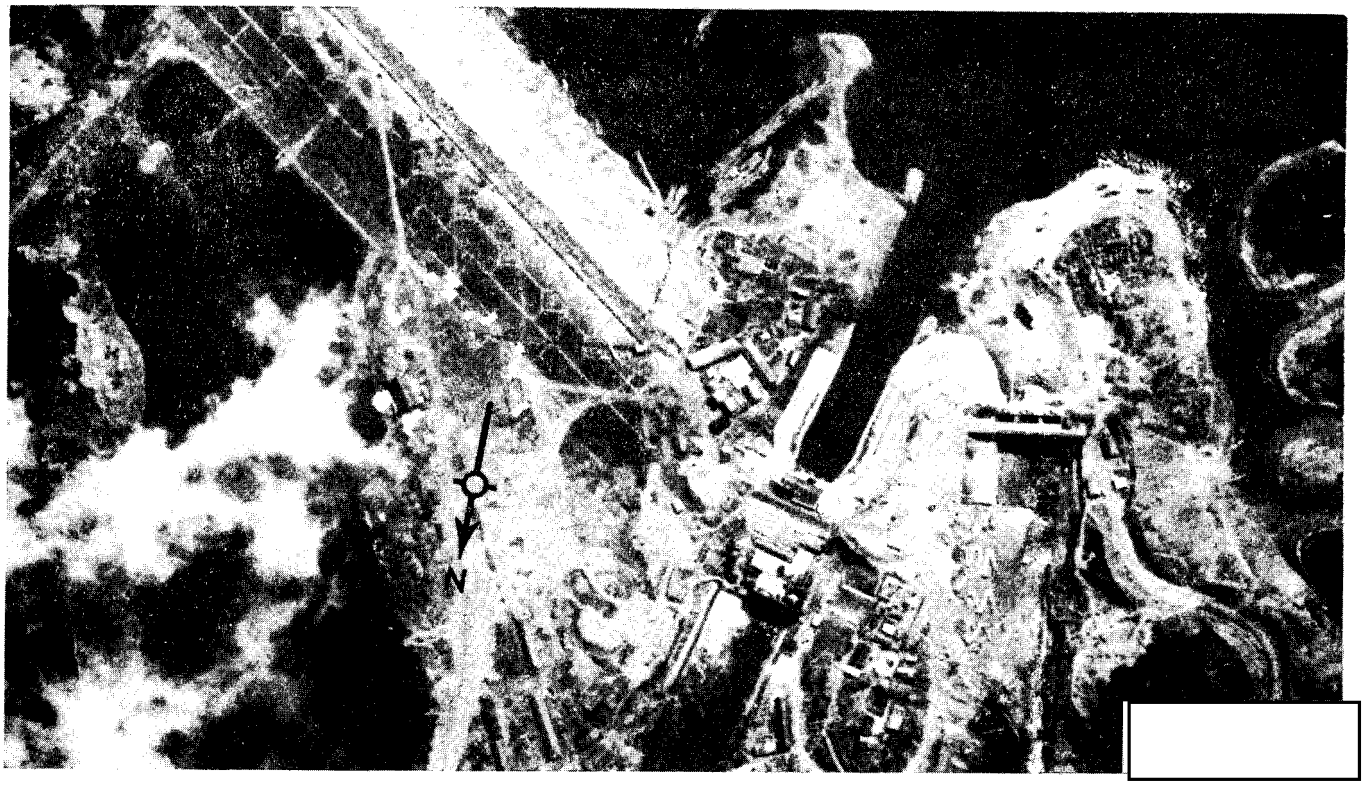
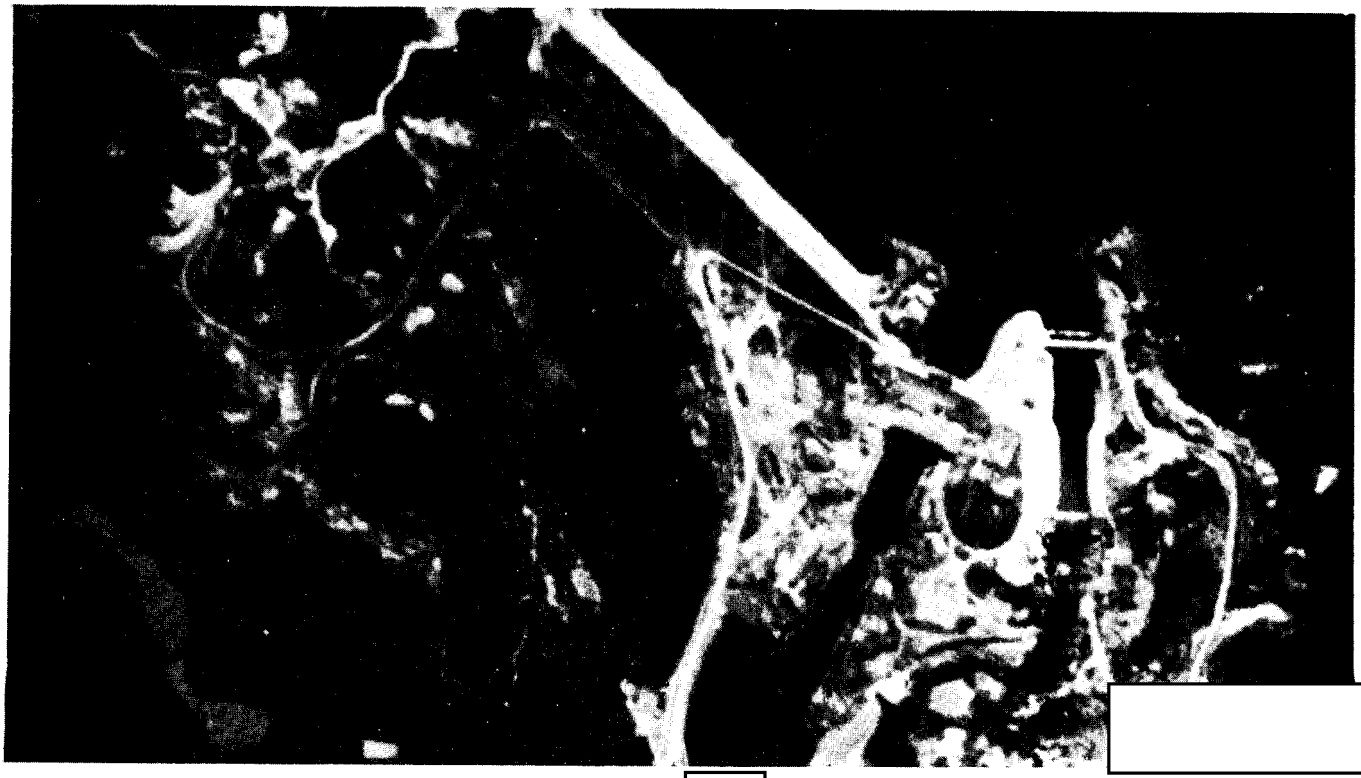
FIGURE 4

HSIN-YU HYDRO POWER PLANT (CHIANG-KOU)





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HSIN-YU HYDRO POWER PLANT (CHIANG-KOU)

PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	Construction is active on the powerhouse and spillway. Housing for two generator units is completed and uprights for the remaining sections appear in place. The spillway appears to be completed and is probably operable.	Water is flowing through the outlets of the unfinished sections of the powerhouse, probably to maintain proper water level behind the dam. No turbulence was noted from completed generator sections.
	Generator hall has been expanded to house a third and possibly a fourth generator unit.	Heavy turbulence is evident from two spillway outlets. Light turbulence is apparent from two areas in front of the completed powerhouse sections. Does not appear heavy enough to indicate power production.
	Powerhouse appears to be completed.	No turbulence observed from spillway or powerhouse.
	None apparent.	No turbulence observed; a light flow of water from spillway is evident.
	None apparent.	No turbulence observed.

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HSIN-YU HYDRO POWER PLANT (CHIANG-KOU)

PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
X1	None apparent.	No turbulence observed.
	None apparent.	No turbulence observed.

D

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NAN-CHANG THERMAL POWER PLANT (CHI-LI-CHIEH)

NPIC NUMBER - 25-E2

Nan-chang Thermal Power Plant (Chi-li-chieh) is located 0.8 nm east of the Nan-chang Railroad Bridge East on the southern bank of the Chiang-Hsi (River) at coordinates 28 43 12N - 115 55 07E. The facility is rail-served, coal-operated and includes a coal unloading building, coal conveying and processing facilities, sub-station, and numerous support/storage buildings.

The boilerhouse is divided into two sections as a result of recent expansion. The northern section (serviced by masonry Stack A) has five ducts and four sets of dust-catchers visible which suggests that at least four boiler units are installed. The southern section is equipped with one dust-catcher and is connected to masonry Stack B by one pair of flues. This section is expanding and may eventually house at least three additional boiler units. It is impossible to ascertain the number of power leads from the generator hall because of the constant smoke cover that obscures the plant.

Additions to the coal-conveyor system and powerhouse occurred during the period from

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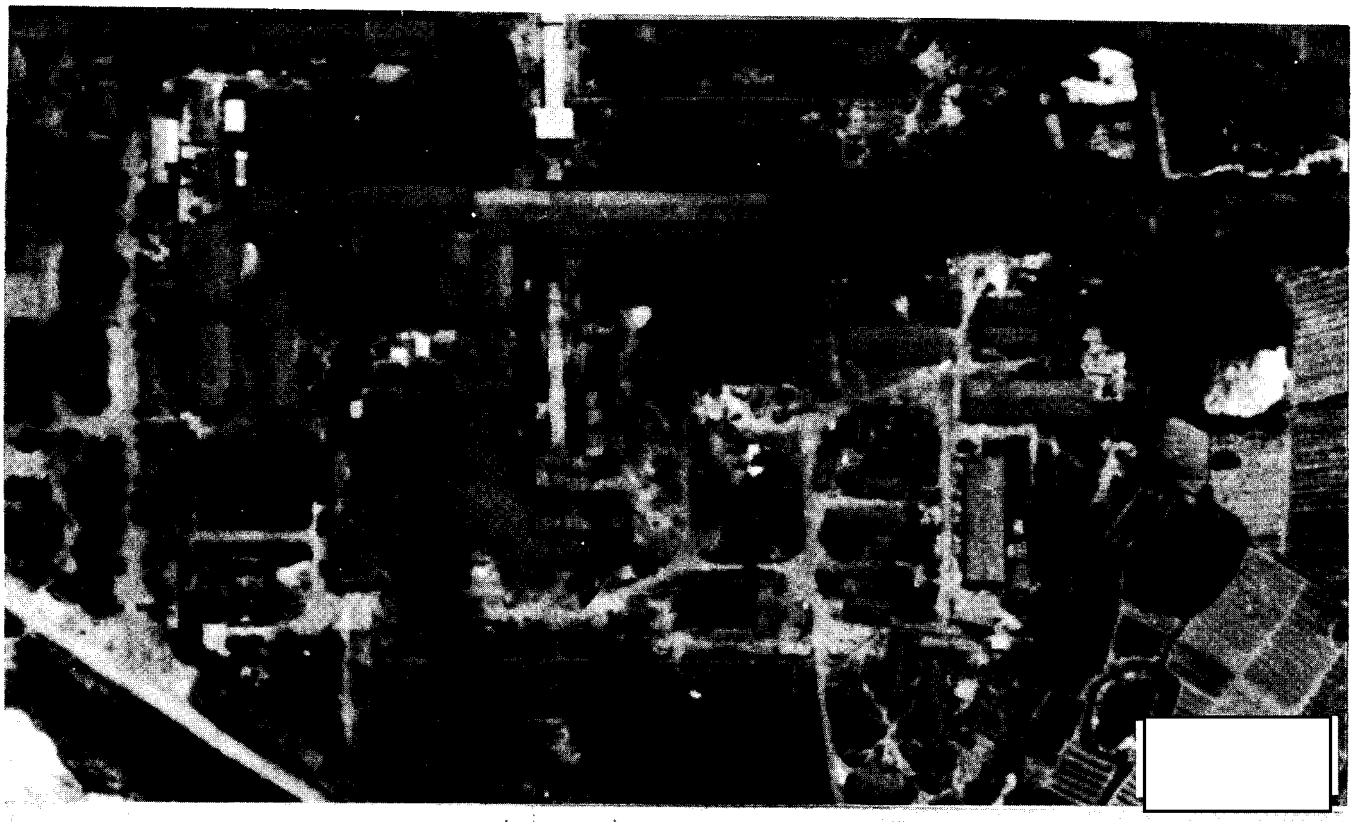
FIGURE 5

NAN-CHANG THERMAL POWER PLANT (CHI-LI-CHIEH)



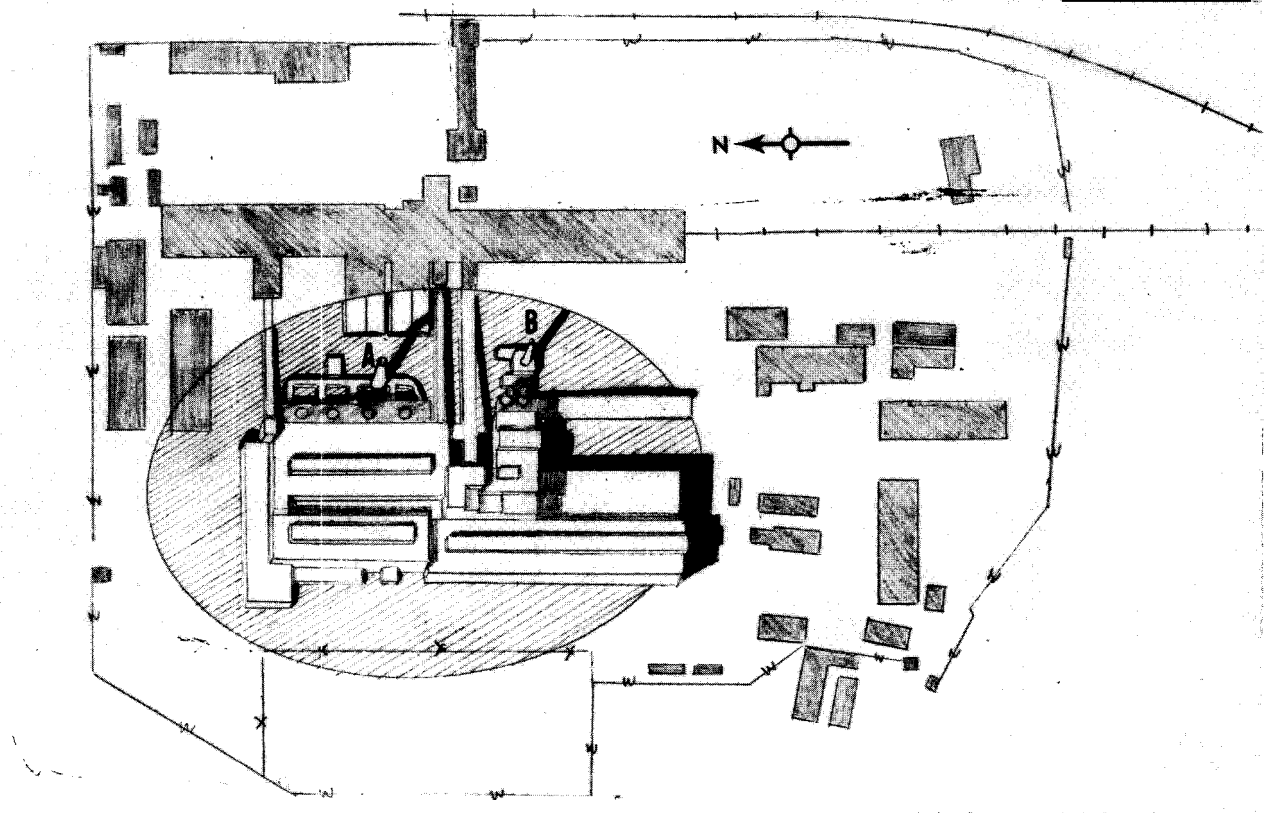


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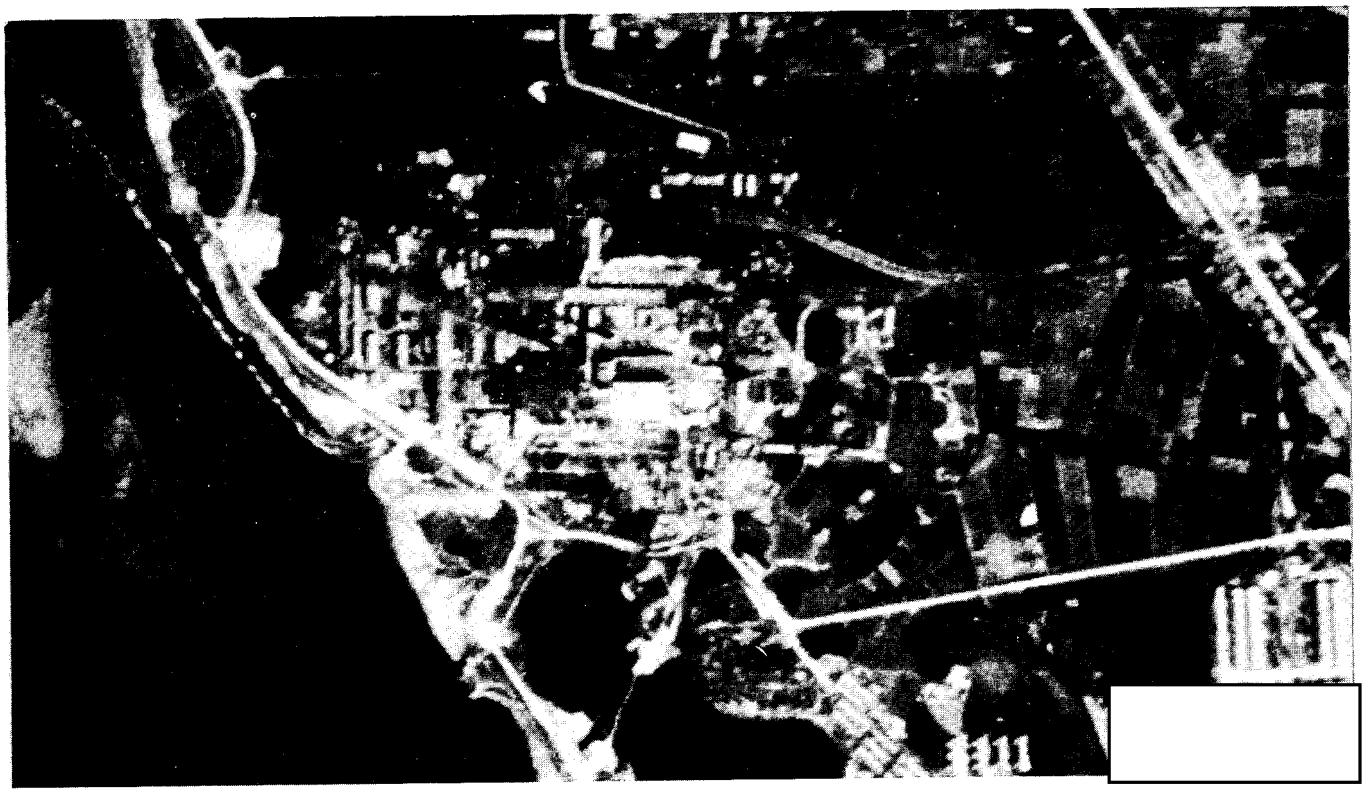
FIGURE 6

NAN-CHANG THERMAL POWER PLANT (CHI-LI-CHIEH)



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NAN-CHANG THERMAL POWER PLANT (CHI-LI-CHIEH)

PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Moderate smoke from Stack B
	None	Moderate smoke from Stack B
	None	Moderate smoke from Stack B
		Clouds preclude analysis
		No smoke observed. Poor quality photography precluded further analysis

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NAN-CHANG THERMAL POWER PLANT (CHI-LI-CHIEH)

PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	A flue connecting a new boiler unit and Stack B has been connected.	Moderate smoke from Stack A Light smoke from Stack B
	An addition to the generator hall is nearing completion. It appears that two or three units could be housed in the new sections.	Heavy smoke from Stack A
	The new generator hall section appears to be completed. Work has begun on a new boiler section; uprights and siding for the eastern wall are in place.	Light smoke from Stack B
	The walls for a new boiler section are visible. This new construction may accommodate three new boiler units.	Moderate smoke from Stack A Light smoke from Stack B

E

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SHANG-YU HYDRO POWER PLANT (TIEH-SHAN-KUAN)

NPIC NUMBER - 103

The Shang-yu Hydro Power Plant (Tieh-shan-kuan) is located 7.1 nm west of Shang-yu on the Chang-shui (River) at coordinates 25 49 30N - 114 24 10E. The facility is a gravity flow type concrete spillway overflow-type power plant with generators located under the spillway. A travelling crane for the gates of the five spillway outlets, switching equipment, and log boom are visible on aerial photography. Ground photography, [redacted] verifies that four Francis type turbines were being installed in the generator section and that four transformers have been installed under the top deck of the dam.

No new construction has occurred during the specified period from [redacted]

X1

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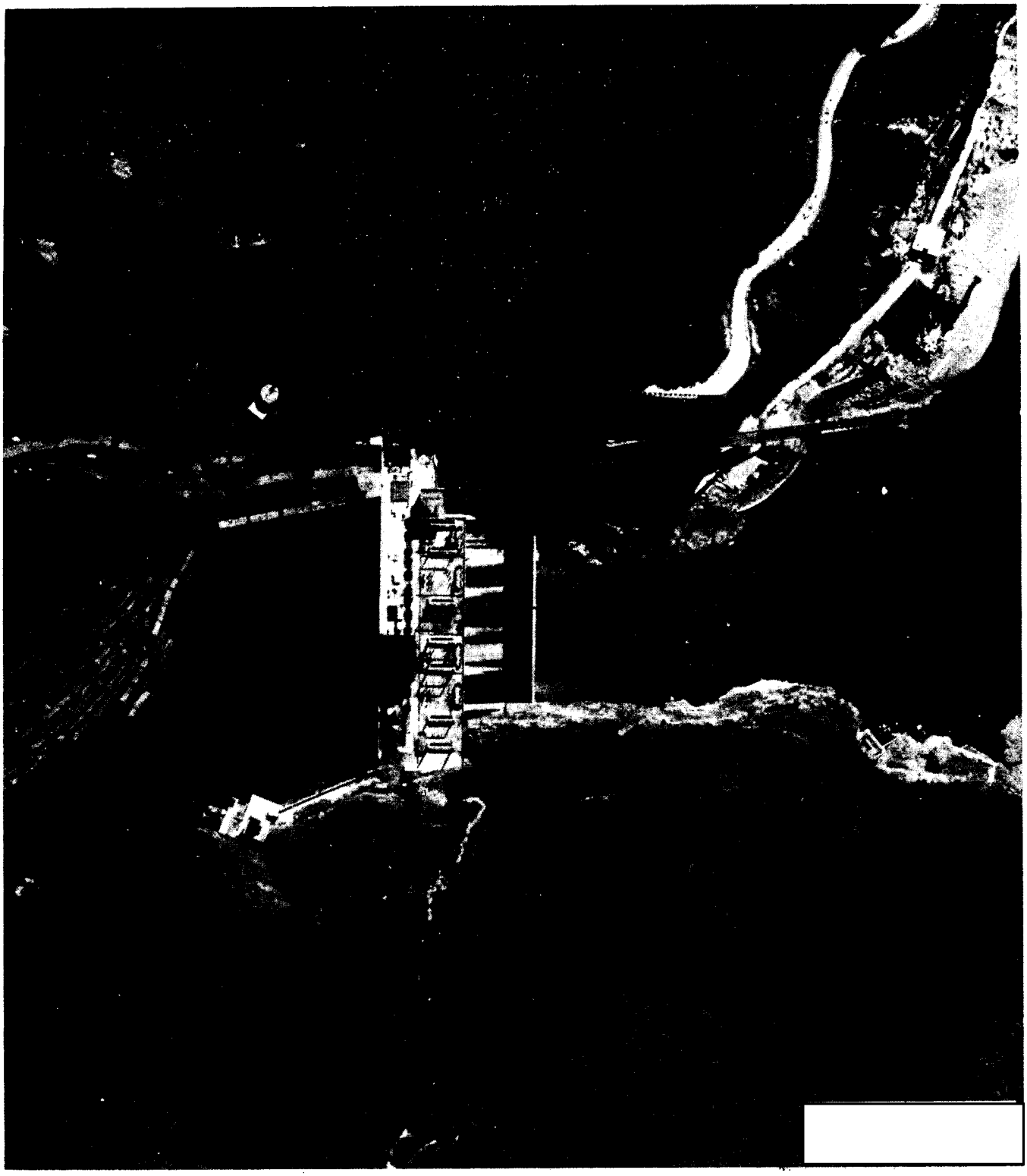
FIGURE 7

SHANG-YU HYDRO POWER PLANT (TIEN-SHAN-KUAN)



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SHANG-YU HYDRO POWER PLANT (TIEH-SHAN-KUAN)

PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Light turbulence from two areas.
	None	Appears to be turbulence from two areas.
	None	No turbulence observed; however, poor quality photography could have precluded detection.
	None	No turbulence.
	None	Two areas of turbulence observed.

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SHANG-YU HYDRO POWER PLANT (TIEH-SHAN-KUAN)

PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Possible light turbulence from one area.
	None	No turbulence observed.

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